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conventionally made much thicker due to constraints of pinhole-free fabrication and non-quantum mechanical, thermally activated electron transport.

Jun et al. are referring to a capacitor that functions as a capacitor, and teaches away from charge transmission.

In contrast to a capacitor, Appellants are referring to a tunnel barrier device, wherein the device operation depends on the transmission of charge through the barrier by quantum mechanical tunneling.

3. Conclusion:

The foregoing points are presented to rebut certain aspects of the Examiner's Reply. Appellants continue to maintain the patentability of their claimed invention. In view of the foregoing and the arguments presented in the Appeal Brief, Appellants respectfully request reversal of the rejections and passing of the application to issuance.

Respectfully submitted,

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